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GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: January 15, 2003, 17:21:18 ; Search time 14 Seconds
(without alignments)
418,226 Million cell updates/sec

Title: US-09-509-283B-2

Perfect score: 1082

Sequence: 1 MKSGIMYFFLECLRIKVLTC.....YMFMRVAVTAKSRHLDVTL 199

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

11 number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/laa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/laa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/laa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/laa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/laa/PCRTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/laa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description
1	163	15.1	218	3	US-08-228-208A-20
2	146.5	13.5	225	1	US-08-505-058-4
3	146.5	13.5	225	1	US-08-459-818-24
4	146.5	13.5	225	2	US-08-889-666-24
5	146.5	13.5	225	2	US-08-465-078-24
6	146.5	13.5	225	2	US-08-725-776-24
7	146.5	13.5	225	2	US-08-488-062-24
8	140	12.9	218	3	US-08-228-208A-19
9	134.5	12.4	220	3	US-08-228-208A-21
10	134	12.4	225	1	US-08-505-058-3
11	134	12.4	225	2	US-08-459-818-23
12	134	12.4	225	2	US-08-889-666-23
13	134	12.4	225	2	US-08-465-078-23
14	134	12.4	225	2	US-08-725-776-23
15	134	12.4	225	2	US-08-488-062-23
16	126	11.6	223	1	US-08-505-058-5
17	126	11.6	223	2	US-08-459-818-25
18	126	11.6	223	2	US-08-889-666-25
19	126	11.6	223	2	US-08-465-078-25
20	126	11.6	223	2	US-08-725-776-25
21	126	11.6	223	2	US-08-488-062-25
22	120.5	11.1	367	3	US-08-630-172-19
23	120.5	11.1	367	4	US-09-375-419-19
24	119.5	11.0	134	4	US-08-630-172-3
25	119.5	11.0	134	4	US-09-375-419-3
26	110.5	10.2	110	4	US-09-460-384-33
27	93	8.6	221	3	US-08-228-208A-22

28	89.5	8.3	117	2	US-08-529-878B-39	Sequence 39, Appl
29	87	8.0	330	2	US-08-332-562A-81	Sequence 81, Appl
30	87	8.0	330	2	US-08-332-562A-134	Sequence 134, Appl
31	86.5	8.0	209	4	US-09-430-503-20	Sequence 20, Appl
32	84.5	7.8	209	4	US-09-430-503-18	Sequence 18, Appl
33	84.5	7.8	209	4	US-09-430-503-24	Sequence 24, Appl
34	84	7.8	223	3	US-08-228-208A-17	Sequence 17, Appl
35	84	7.8	283	2	US-08-332-562A-136	Sequence 136, Appl
36	82.5	7.6	209	4	US-09-430-503-22	Sequence 22, Appl
37	81.5	7.5	187	1	US-08-067-684-14	Sequence 14, Appl
38	81.5	7.5	187	1	US-08-008-898-14	Sequence 14, Appl
39	81.5	7.5	187	2	US-08-459-818-14	Sequence 14, Appl
40	81.5	7.5	187	2	US-08-889-666-14	Sequence 14, Appl
41	81.5	7.5	187	2	US-08-465-078-14	Sequence 14, Appl
42	81.5	7.5	187	2	US-08-725-776-14	Sequence 14, Appl
43	81.5	7.5	187	2	US-08-488-062-14	Sequence 14, Appl
44	81.5	7.5	187	3	US-08-228-208A-14	Sequence 14, Appl
45	81.5	7.5	187	5	PCT-US95-06726-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-08-228-208A-20
Sequence 20, Application US/08228208A
Patent No. 6090914
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Lebetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Wallace, Philip M.
TITLE OF INVENTION: CTLA4/CD28ig HYBRID FUSION
TITLE OF INVENTION: PROTEINS AND USES THEREOF
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 11150 Santa Monica Boulevard, Suite 400
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/228, 208A
FILING DATE: 15-Apr-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/008, 898
FILING DATE: 22-Jan-1993
APPLICATION NUMBER: 07/723, 617
FILING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B
REGISTRATION NUMBER: 34, 470
REFERENCE/DOCKET NUMBER: 30436-300S01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310 445-1140
TELEFAX: 310 445-9031
TELEX:
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 218 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-228-208A-20

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Query Match 15.1%; Score 163; DB 3; Length 218;
Best Local Similarity 26.5%; Pred. No. 3.5e-11;
Matches 41; Conservative 31; Mismatches 65; Indels 18; Gaps 7;
QY 30 MFIHNGVQIILCKYPD--IVQOFKMLKGGQILCDLTKTKSGNTVSIRSLK-----F 82
DB 29 LLYVDNNEVSLSCRSYNLAKERFASLYKG--VNSDEVXCVGNNGFTYQOPFRPNVG 86
QY 83 CHSOLSNNSVFFLYNLDHSHANYFCNLSIFDPPF--KVTLTGGLHYESQLC---C 137
DB 87 CDGNEDEVTYFRMLNDVNHDIYFCKIEYWPYPPLDNEKSNGTIIHKEKHLCIAHOT 146
QY 138 QLKFWPLPGCAFYVVC--ILGCLILC--WLTKK 168
DB 147 SPKLFWPLVYVAGVLCYGLTYVTLCITWNSRR 181

RESULT 2

US-505-058-4
; Invention 4, Application US/08505058
; Patent No. 5773253
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; TITLE OF INVENTION: CTLA4 Mutant Molecules and Uses Thereof
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 1150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/505,058
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/228,208
; FILING DATE: 15-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436.30US11
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 225 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-505-058-4

Query Match 13.5%; Score 146.5; DB 1; Length 225;
Best Local Similarity 26.2%; Pred. No. 3.2e-09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9;

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DB 30 LLYVDNNEVSLSCRSYNLAKERFASLYKG--VNSDEVXCVGNNGFTYQOPFRPNVG 87
QY 82 -FCHSOLSNNSVFFLYNLDHSHANYFCNLSIFDPPF--KVTLTGGLHYESQLC-- 136
DB 82 -FCHSOLSNNSVFFLYNLDHSHANYFCNLSIFDPPF--KVTLTGGLHYESQLC-- 136

DB 88 FNCGDNEDEVTYFRMLNDVNHDIYFCKIEYWPYPPLDNEKSNGTIIHKEKHLCIA 147
QY 137 ----COLKFWPLPGCAFYVVC--ILGCLILC--WLTKK 168
DB 148 XXXOTSPKLFWPLVYVAGVLCYGLTYVTLCITWNSRR 187

RESULT 3

US-08-459-818-24
; Sequence 24, Application US/08459818
; Patent No. 5851795
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Brady, William K.
; TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant & Gould
; STREET: 1150 Santa Monica Blvd., Suite 400
; CITY: Los Angeles
; STATE: California
; COUNTRY: USA
; ZIP: 90025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: FastSeq 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/459,818
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Adriano, Sarah B.
; REGISTRATION NUMBER: 34,470
; REFERENCE/DOCKET NUMBER: 30436.35US02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 310-445-1140
; TELEFAX: 310-445-9031
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 225 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-459-818-24

Query Match 13.5%; Score 146.5; DB 2; Length 225;
Best Local Similarity 26.2%; Pred. No. 3.2e-09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps 9;

QY 30 MFIHNGVQIILCKYPD--IVQOFKMLKGGQILCDLTKTKSGNTVSIRSLK----- 81
DB 30 LLYVDNNEVSLSCRSYNLAKERFASLYKG--VNSDEVXCVGNNGFTYQOPFRPNVG 87
QY 82 -FCHSOLSNNSVFFLYNLDHSHANYFCNLSIFDPPF--KVTLTGGLHYESQLC-- 136
DB 88 FNCGDNEDEVTYFRMLNDVNHDIYFCKIEYWPYPPLDNEKSNGTIIHKEKHLCIA 147
QY 137 ----COLKFWPLPGCAFYVVC--ILGCLILC--WLTKK 168
DB 148 XXXOTSPKLFWPLVYVAGVLCYGLTYVTLCITWNSRR 187

RESULT 4

US-08-889-666-24
; Sequence 24, Application US/08889666
; Patent No. 5885579
; GENERAL INFORMATION:
; APPLICANT: Linsley, Peter S.

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1  APPLICANT: Ledbetter, Jeffrey A.
2  APPLICANT: Damle, Nitin K.
3  APPLICANT: Brady, William
4  APPLICANT: Kiener, Peter A.
5  TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
6  NUMBER OF SEQUENCES: 26
7  CORRESPONDENCE ADDRESS:
8  ADDRESSEE: Merchant & Gould
9  STREET: 11150 Santa Monica Blvd., Suite 400
10 CITY: Los Angeles
11 STATE: California
12 COUNTRY: USA
13 ZIP: 90025
14
15 COMPUTER READABLE FORM:
16 MEDIUM TYPE: Floppy disk
17 COMPUTER: IBM PC compatible
18 OPERATING SYSTEM: PC-DOS/MS-DOS
19 SOFTWARE: PatentIn Release #1.0, Version #1.30
20 CURRENT APPLICATION DATA:
21 APPLICATION NUMBER: US/08/889,666
22 FILING DATE: 08-JUL-1997
23 CLASSIFICATION: 435
24 PRIOR APPLICATION DATA:
25 APPLICATION NUMBER: US 08/375390
26 FILING DATE: 18-JAN-1995
27 CLASSIFICATION: 435
28 ATTORNEY/AGENT INFORMATION:
29 NAME: Adriano, Sarah B.
30 REGISTRATION NUMBER: 34,470
31 REFERENCE/DOCKET NUMBER: 30436-35US01
32 TELECOMMUNICATION INFORMATION:
33 TELEPHONE: 310-445-1140
34 TELEFAX: 310-445-9031
35 INFORMATION FOR SEQ ID NO: 24:
36 SEQUENCE CHARACTERISTICS:
37 LENGTH: 225 amino acids
38 TYPE: amino acid
39 STRANDEDNESS:
40 TOPOLOGY: linear
41 MOLECULE TYPE: protein
42 US-08-889-666-24
43
44 Query Match 13.5%; Score 146.5; DB 2; Length 225;
45 Best Local Similarity 26.2%; Pied. No. 3.2e-09;
46 Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps
47
48 QY 30 MFIHHNGVQLI-CKYPD--IYQFQMQLKGGQILCDLTKT-KSGNTVSITSIKR----- 81
49 30 LADVDDNEXYSLSRCRYNLLAKREFASLYKG--VNSDXYEVCVGGNGNTYQPOFRPNVG 87
50 30 LADVDDNEXYSLSRCRYNLLAKREFASLYKG--VNSDXYEVCVGGNGNTYQPOFRPNVG 87
51
52 QY 82 -FCHSOLSNNSVSEFLVNLDSHSANYFCNLSIFDPPF--KVTLLGGLYHIESQLC-- 136
53 DB 88 FNCDFGNFNEVYFTRNLVDNHTDITDFCKLEVMYPPPYLDNKSNGRIHIIKEKHLCNA 147
54
55 QY 137 ----COLKFWLPIGCAFAVVC--IIGCTLIC--WLTKRK 168
56 DB 148 XXXQTSPTLFWPLVAVGVLCTGGLTYVTLCIITMSRR 187
57
58 RESULT 5
59 US-08-465-078-24
60 Sequence 24, Application US/08465078
61 Patent No. 5885796
62 GENERAL INFORMATION:
63 APPLICANT: Linsley, Peter S.
64 APPLICANT: Ledbetter, Jeffrey A.
65 APPLICANT: Damle, Nitin K.
66 APPLICANT: Brady, William
67 APPLICANT: Kiener, Peter A.
68 TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
69 NUMBER OF SEQUENCES: 26
70 CORRESPONDENCE ADDRESS:
71 ADDRESSEE: Merchant & Gould

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? STREET : 11150 Santa Monica Blvd., Suite 400
? CITY : Los Angeles
? STATE : California
? COUNTRY : USA
? ZIP : 90025
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? OPERATING SYSTEM: IBM PC compatible
? SOFTWARE: Patent In Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/465,078
? FILING DATE: 05-JUN-1995
? CLASSIFICATION: 435
? PRIORITY INFORMATION:
? APPLICATION NUMBER: US 08/375390
? FILING DATE: 18-JAN-1995
? ATTORNEY/AGENT INFORMATION:
? NAME: Adriano, Sarah B.
? REGISTRATION NUMBER: 34,470
? REFERENCE/DOCKET NUMBER: 30436-35US01
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 310-445-1140
? TELEFAX: 310-445-9031
? INFORMATION FOR SEQ ID NO: 24:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 225 amino acids
? TYPE: amino acid
? STRANDEDNESS:
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-08-465-078-24

Query Match          13.5%   Score 146.5   DB 2; Length 225;
Best Local Similarity 26.2%; Pred. No. 3,2e+09;
Matches 42; Conservative 31; Mismatches 64; Indels 23; Gaps

QY      30 MEIPIINGVOIL-CRTPD--IVYQFKMQLKGGQILCDITRT-KSGNTVSIKSRLK--- 81
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DB      30 LVIYNNNVXSLSCRSYMLAKFRASLYKG--VNSDVXEVCVGNGNFYOPORPVPWG 87

QY      82 -FCHSQLSNNSVSFFNYLNDHSHANYFCMLSFDPPEF--KYTLTGVLHYEISQLC- 136
       |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB      88 FNCGDGPNDETVEYERLMIDVDVNHDIIFCKIEVMYDPPIYLDNEKSNSTIIHHKEKHLC 147
       |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY      137 ----CGKFNPICCAAFPVNC--ILCCILIC-WITTKK 168
       |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB      148 XXXOTSFLMPLVYVAGVALCYGLTYVTLCITIMNSR 187

RESULT 6
US-08-725-776-24
? Sequence 24, Application US/08725776
? Patent No. 5968510
? GENERAL INFORMATION:
? APPLICANT: Linsley, Peter S.
? APPLICANT: Legbetter, Jeffrey A.
? APPLICANT: Danle, Mitin K.
? APPLICANT: Brady, William
? APPLICANT: Kiener, Peter A.
? TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
? NUMBER OF SEQUENCES: 26
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Merchant & Gould
? STREET: 11150 Santa Monica Blvd., Suite 400
? CITY: Los Angeles
? STATE: California
? COUNTRY: USA
? ZIP: 90025
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? OPERATING SYSTEM: IBM PC compatible
? SOFTWARE: Patent In Release #1.0, Version #1.30

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TELEX:
: INFORMATION FOR SEQ ID NO: 19:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 218 amino acids
: TYPE: amino acid
: STRANDEDNESS: unknown
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-228-208A-19

Query Match
: 12.9%; Score 140; DB 3; Length 218;
Best Local Similarity 25.7%; Pred. No. 1.8e-08;
Matches 39; Conservative 24; Mismatches 61; Indels 28; Gaps 7;

OY 38 VOILCKYPPD--IVQOFKMLLGGQILDLTKRKSGNTVSIKSLKF-----CHSOLSN 90
DB 37 VLSICRSTYNLAKFRASLTKG--VNSDVEVCVGKNETTYOPFRSNAEFCDGDFDNE 94
OY 91 SVSEFLYNLDHSHANYFCNLISFDPPPF--KVTLTGGYLHIYESQLC---COLKFWLP 144
DB 95 TATFRLMNLHVNHDTIYFCKIEFWPPYLDNERSNGTIIHKHKLCHTQSSPLFW-- 152
OY 145 IGCARFVVCILGIC-----ILICWLTKKK 168
DB 153 ---ALYVAVGVLCYGLLYVALCVIWTNSRR 181

RESULT 9
US-08-228-208A-21
: Sequence 21, Application US/08228208A
: Patent No. 6090914
: GENERAL INFORMATION:
: APPLICANT: Linsley, Peter S.
: APPLICANT: Ledbetter, Jeffrey A.
: APPLICANT: Damle, Nitin K.
: APPLICANT: Brady, William
: APPLICANT: Wallace, Phillip M.
: TITLE OF INVENTION: CTLA4/CD281g HYBRID FUSION
: TITLE OF INVENTION: PROTEINS AND USES THEREOF
: NUMBER OF SEQUENCES: 22
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Merchant & Gould
: STREET: 11150 Santa Monica Boulevard, Suite 400
: CITY: Los Angeles
: STATE: CA
: COUNTRY: USA
: ZIP: 90025
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: OPERATING SYSTEM: DOS
: SOFTWARE: FastSeq Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/228,208A
: FILING DATE: 15-APR-1994
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/008,898
: FILING DATE: 22-JAN-1993
: APPLICATION NUMBER: 07/723,617
: FILING DATE: 27-JUN-1991
: ATTORNEY/AGENT INFORMATION:
: NAME: Adriano, Sarah B.
: REGISTRATION NUMBER: 34,470
: REFERENCE/DOCKET NUMBER: 30436-30US01
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 310 445-1140
: TELEFAX: 310 445-9031
: TELEX:
: INFORMATION FOR SEQ ID NO: 21:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 220 amino acids
: TYPE: amino acid
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STRANDEDNESS: unknown
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-228-208A-21

Query Match
: 12.4%; Score 134.5; DB 3; Length 220;
Best Local Similarity 25.4%; Pred. No. 7.9e-08;
Matches 44; Conservative 30; Mismatches 74; Indels 25; Gaps 7;

OY 30 MFLFHNGVQIILCKYPPD--IVQOFKMLLGGQILDLTKRKSGN--TVSISKRFCH 84
DB 28 MLAVYAMNALSCKSTSYLFSRFRASLHKGLDSANVECVYGNVSQLOLYSKTGKND 87
OY 85 SOLSNNSVSEFLYNLDHSHANYFCNLISFDPPPF--KVTLTGGYLHIYESQLCCQLFW 142
DB 88 GKLGNSVYFYLQNLVYMQTDIYFCKIEFWPPYLDNERSNGTIIHKHKLCHTQSSPLF- 146
OY 143 LPIGCAFFVVCILGICILIC-----WLTKKYSVHDHPNCEYFMF 183
DB 147 -PGPSKPEFVLYVVGVLACYSILYVAFLIFVNSKR-SRLH---SDYMM 194

RESULT 10
US-08-505-058-3
: Sequence 3, Application US/08505058
: Patent No. 5773253
: GENERAL INFORMATION:
: APPLICANT: Linsley, Peter S.
: APPLICANT: Ledbetter, Jeffrey A.
: APPLICANT: Peach, Robert
: TITLE OF INVENTION: CTLA4 Mutant Molecules and Uses Thereof
: NUMBER OF SEQUENCES: 13
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Merchant & Gould
: STREET: 11150 Santa Monica Blvd., Suite 400
: CITY: Los Angeles
: STATE: California
: COUNTRY: USA
: ZIP: 90025
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/505,058
: FILING DATE:
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/228,208
: FILING DATE: 15-APR-1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Adriano, Sarah B.
: REGISTRATION NUMBER: 34,470
: REFERENCE/DOCKET NUMBER: 30436-30US11
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 310-445-1140
: TELEFAX: 310-445-9031
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 225 amino acids
: TYPE: amino acid
: STRANDEDNESS:
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-505-058-3

Query Match
: 12.4%; Score 134; DB 1; Length 225;
Best Local Similarity 23.0%; Pred. No. 9.3e-08;
Matches 42; Conservative 32; Mismatches 77; Indels 32; Gaps 8;

OY 11 FLRLKRYLGEINSGANYEFIFHNGVQIILCKYPPD--IVQOFKMLLGGQILDLTKRT 68
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Db      12 FFSVQVTEKTLVKQSPILTYDSNVEYSLGSRISYNLNLAKERRASLYTG--VNSDYXEV 69
QY      69 -KSGNWTYSIKSLF-----CHSOLSNNSVSFFLYLNDHSHANTYTCNLTIDPPF--K 120
Db      70 CVENGGNYTQOPFNSMAEFNCDDDEPDNETVTFRLMNLHVNHTDITFECKLEFMPYPPIYDN 129
QY      121 VLTGGLVLTGIEESOLC-----COLKFLPFGCAAFVYVCILGC-----LILCMLT 165
Db      130 ERSNGTIIHIEKHILCHTXXXQSSPKLFW-----ALTVAGVLFECYGLLVVALCVIWTN 184
QY      166 KKK 168
Db      185 SRR 187

RESULT 11
US-08-459-818-23
: Sequence 23, Application US/08459818
: Patent No. 5851795
: GENERAL INFORMATION:
: APPLICANT: Linsley, Peter S.
: APPLICANT: Lebetter, Jeffrey A.
: APPLICANT: Dame, Milton K.
: APPLICANT: Brady, William K.
: TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
: NUMBER OF SEQUENCES: 27
: CORRESPONDENCE ADDRESSES:
: ADDRESSEE: Merchant & Gould
: STREET: 1150 Santa Monica Blvd., Suite 400
: CITY: Los Angeles
: STATE: California
: COUNTRY: USA
: ZIP: 90025
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: FastSeq 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/459,818
: FILING DATE: 02-JUN-1995
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Adriano, Sarah B.
: REGISTRATION NUMBER: 34,470
: REFERENCE/DOCKET NUMBER: 30436, 35US02
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 310-445-4140
: TELEFAX: 310-445-9031
: INFORMATION FOR SEQ ID NO: 23:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 225 amino acids
: TYPE: amino acid
: STRANDEDNESS:
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-459-818-23

Query Match      12.48; Score 134; DB 2; Length 225;
Best Local Similarity 23.08; Pred. No. 9.3e-08;
Matches 42; Conservative 32; Mismatches 77; Indels 32; Gaps

QY      11 FCILRIKVLGTGEINSANSEYEFIRHNGGVQVILCKKYPD--IVQPFKMLKLGQILDLDTKT 68
Db      12 FFSVQVTEKTLVKQSPILTYDSNVEYSLGSRISYNLNLAKERRASLYTG--VNSDYXEV 69
QY      69 -KSGNWTYSIKSLF-----CHSOLSNNSVSFFLYLNDHSHANTYTCNLTIDPPF--K 120
Db      70 CVENGGNYTQOPFNSMAEFNCDDDEPDNETVTFRLMNLHVNHTDITFECKLEFMPYPPIYDN 129
QY      121 VLTGGLVLTGIEESOLC-----COLKFLPFGCAAFVYVCILGC-----LILCMLT 165
Db      130 ERSNGTIIHIEKHILCHTXXXQSSPKLFW-----ALTVAGVLFECYGLLVVALCVIWTN 184
QY      166 KKK 168
Db      185 SRR 187

121 VLTGGLVLTGIEESOLC-----COLKFLPFGCAAFVYVCILGC-----LILCMLT 165
130 ERSNGTIIHIEKHILCHTXXXQSSPKLFW-----ALTVAGVLFECYGLLVVALCVIWTN 184
166 KKK 168
185 SRR 187

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0Y      166 KKK 168
Db      185 SRR 187

RESULT 12
US-08-889-666-23
; Sequence 23, Application US/08889666
; Patent No. 5885579
GENERAL INFORMATION:
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.
APPLICANT: Brady, William
APPLICANT: Kiener, Peter A.
TITLE OF INVENTION: CILIA Receptor and Uses Thereof
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merchant & Gould
STREET: 1150 Santa Monica Blvd., Suite 400
City: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/08/889,666
APPLICATION DATE: 08-JUL-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/375390
FILING DATE: 18-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Adriano, Sarah B.
REGISTRATION NUMBER: 34,470
REFERENCE/DOCKET NUMBER: 30436-35UO01
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-445-1140
TELEFAX: 310-445-9031
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 225 amino acids
TYPE: amino acid
STRANDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-889-666-23

Query Match          12.4%; Score 134; DB 2; Length 225;
Best Local Similarity 23.0%; Pred. No. 9.3e-08;
Matches 42; Conservative 32; Mismatches 77; Indels 32; Gaps

QY    11 FCLRIKVLGTGEINSANSAYEMFIPIHNGVOYLICKYPD--IYOQFKMLKGGLICDLTKT 68
       |::|::||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB     12 FFKSIVOVTENIKLVOKSPLIYVDSNEVXSLCSRYMYLAKKEPRASLYKGG--VNSDXYEV 69
QY      69 -KSGCNQSIKSLKF-----CHSOLSNSSVSFFPLYNDHSNANYFCNLSTIFDPPEP-K 120
       ||::||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB      70 CVGNCGNFYYQPQFSNAEFNCDDDEPNENEIVFRLLAMLAHVNHIDIFYCKIEEMYPPPLDN 129
QY     121 VTLTGCVLIHYESQLC-----COLKRFLIPGCAARVVVCIIAGC-----ILIQWLT 165
       ||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB     130 EMSGNTIHIREKLHCFTXXXSSEPKTFW-----ALTVAVGVLCFGILLVALCALVIWTN 184
QY      166 KKK 168
Db      185 SRR 187
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Page 8

APPLICANT: Brady, William
 APPLICANT: Kiener, Peter A.
 TITLE OF INVENTION: CTLA4 Receptor and Uses Thereof
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Merchant & Gould
 STREET: 11150 Santa Monica Blvd., Suite 400
 CITY: Los Angeles
 STATE: California
 COUNTRY: USA
 ZIP: 90025
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/488,062
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/375390
 FILING DATE: 18-JAN-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Aditano, Sarah B.
 REGISTRATION NUMBER: 34,470
 REFERENCE/DOCKET NUMBER: 30436-350501
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 310-445-1140
 TELEFAX: 310-445-9031
 INFORMATION FOR SEQ ID NO: 23:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 225 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 OS-08-488-062-23

Query Match	12.4%	Score 134	DB 2	Length 225
Best Local Similarity	23.0%	Pred. No. 9.3e-08		
Matches	42	Conservative	32	Mismatches 77; Indels 32; Gaps 8;
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DB	12	FFSVQVYENKILVKQSPILYDENSEVYSLSCRSTYLLAKKFRASLTKG--VNSDVXEV	69	
QY	69	-KGSNTVYISLSLK--CHSGLSNNSVSFFYLINDSHANYTFCNLSIFDPPE--K	120	
DB	70	CVANGNFTYQPFNSNAEFNCDDDDNETVFYFLMLNLHVNHTDIFCKIEFMTPPLDIN	129	
QY	121	VVLTFGLYHITESQLC-----COLKFWLPIGCAAFVVCILGC-----ILICWL	165	
DB	130	ERSNFTIHLIKELKCHTXXXSSPKLEW-----ALYVAGVLFQGLYLVATLCVIMTN	184	
QY	166	KKK	168	
DB	185	SRR	187	

Search completed: January 15, 2003, 17:21:44
Job time : 16 secs

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Page 1

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OM protein - protein search, using sw model

Run on: January 15, 2003, 17:21:18 (Search time 11 Seconds
(without alignments)
359,620 Million cell updates/sec

Title: US-09-509-283B-2

Perfect score: 1082
Sequence: 1 MMSGIWMFFLECLRIKIVNG.....YMFMRVNTAKSRDLVDVL 199

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 120991 seqs, 19878514 residues

11 number of hits satisfying chosen parameters: 120991

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Lasting first 45 summaries

Database:

Published Applications_AA:*
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3: /cgn2_6/ptodata/1/pubpaa/US06_NEM_PUB pep.*
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10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB pep.*
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12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB pep.*
13: /cgn2_6/ptodata/1/pubpaa/US60_NEM_PUB pep.*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	1082	100.0	199	9	US-10-107-868-2
2	1082	100.0	199	12	US-10-107-828-2
3	1082	100.0	199	12	US-10-107-907-2
4	1067.5	98.7	198	9	US-09-972-524-2
5	1067.5	98.7	198	9	US-09-823-307-2
6	1066.5	98.6	198	9	US-09-889-545-12
7	737.5	68.2	200	9	US-09-989-545-8
8	737.5	68.2	200	9	US-09-989-545-10
9	722.5	66.8	200	9	US-10-107-868-14
10	722.5	66.8	200	12	US-10-107-868-14
11	722.5	66.8	200	12	US-10-107-907-14
12	701	64.8	200	9	US-10-107-868-13
13	701	64.8	200	12	US-10-107-828-13
14	701	64.8	200	12	US-10-107-907-13
15	696	64.3	216	9	US-10-107-868-15
16	696	64.3	216	9	US-10-107-868-15
17	696	64.3	216	12	US-10-107-828-15
18	696	64.3	216	12	US-10-107-828-23
19	696	64.3	216	12	US-10-107-907-15

20	696	64.3	216	12	US-10-107-907-23	Sequence 23, Appl
21	694.5	64.2	200	9	US-10-107-868-16	Sequence 16, Appl
22	694.5	64.2	200	12	US-10-107-828-16	Sequence 16, Appl
23	694.5	64.2	200	12	US-10-107-907-16	Sequence 16, Appl
24	176	16.3	214	9	US-10-107-868-17	Sequence 17, Appl
25	176	16.3	214	12	US-10-107-828-17	Sequence 17, Appl
26	176	16.3	214	12	US-10-107-907-17	Sequence 17, Appl
27	145.5	13.4	221	10	US-09-303-510-8	Sequence 8, Appl1
28	145.5	13.4	221	10	US-09-303-510-8	Sequence 8, Appl1
29	139.5	12.9	220	9	US-10-107-868-25	Sequence 25, Appl
30	139.5	12.9	220	9	US-09-989-545-19	Sequence 19, Appl
31	139.5	12.9	220	12	US-10-107-828-25	Sequence 25, Appl
32	139.5	12.9	220	12	US-10-107-907-25	Sequence 25, Appl
33	138	12.8	218	9	US-09-989-545-18	Sequence 18, Appl
34	89	8.2	305	10	US-09-771-730-119	Sequence 119, App
35	86.5	8.0	223	9	US-09-989-545-20	Sequence 20, Appl
36	86.5	8.0	223	9	US-10-211-207-5	Sequence 5, Appl1
37	86	7.9	223	9	US-10-107-868-26	Sequence 26, Appl
38	86	7.9	223	9	US-09-989-545-21	Sequence 21, Appl
39	86	7.9	223	9	US-10-211-207-3	Sequence 3, Appl1
40	86	7.9	223	12	US-10-107-828-26	Sequence 26, Appl
41	86	7.9	223	12	US-10-107-907-26	Sequence 26, Appl
42	81.5	7.5	212	9	US-10-057-288-13	Sequence 12, Appl
43	79.5	7.3	269	9	US-10-028-072-530	Sequence 530, App
44	79	7.3	168	10	US-09-845-899A-7	Sequence 7, Appl
45	78	7.2	231	10	US-09-862-027-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-10-107-868-2
Sequence 2, Application US/10107868
Patent No. US20020156242A1
GENERAL INFORMATION:
APPLICANT: Tamakani, Takuya
TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
FILE REFERENCE: 06501-039002
CURRENT APPLICATION NUMBER: US/10/107,868
CURRENT FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: 09/561,308
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: US 09/383,551
PRIOR FILING DATE: 1999-08-26
PRIOR APPLICATION NUMBER: PCT/JP98/00837
PRIOR FILING DATE: 1998-02-27
PRIOR APPLICATION NUMBER: JAPAN 09-62290
PRIOR FILING DATE: 1997-02-27
PRIOR APPLICATION NUMBER: JAPAN 10-62217
PRIOR FILING DATE: 1998-02-26
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 199
TYPE: PRT
ORGANISM: Homo sapiens
US-10-107-868-2

Query Match 100.0%; Score 1082; DB 9; Length 199;
Best Local Similarity 100.0%; Pred. No. 2.9e-101;
Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MMSGIWMFFLECLRIKIVTGEINGSANYEMFIFHNGVOILCKYPPDIYQOQFKMQLKGGQ 60
DB 1 MMSGIWMFFLECLRIKIVTGEINGSANYEMFIFHNGVOILCKYPPDIYQOQFKMQLKGGQ 60
QY 61 IICDLITKTKGSGNIVYSIKSLKFKCHSLSNNSVSFFLYINDHSHANYFCMLSTFDDPPPK 120
DB 61 IICDLITKTKGSGNIVYSIKSLKFKCHSLSNNSVSFFLYINDHSHANYFCMLSTFDDPPPK 120

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Page 2

QY	121	VHTGTYLHIEESOLCCQLKFMPLPGCAAPVWYCLIGTICMLTKKKYSSSHHPNKEY	160
D8	121	VHTGTYLHIEESOLCCQLKFMPLPGCAAPVWYCLIGTICMLTKKKYSSSHHPNKEY	160
QY	181	MEMRAVNTAKKSRLTDVTLL	199
D8	181	MEMRAVNTAKKSRLTDVTLL	199

RESULT 2
US-10-107-828-2
; Sequence 2, Application US/10107828

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GENERAL INFORMATION:
APPLICANT: Tamatani, Takuya
APPLICANT: Tezuka, Katsunari
TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
ADHESION AND SIGNAL TRANSMISSION
FILE REFERENCE: 06501-039002
CURRENT APPLICATION NUMBER: US/10/107,828
PRIORITY FILING DATE: 2002-03-26
PRIORITY APPLICATION NUMBER: US/09/561,308B
PRIORITY FILING DATE: 2000-04-28
PRIORITY APPLICATION NUMBER: PCT/J98/00837
PRIORITY FILING DATE: 1998-02-27
PRIORITY APPLICATION NUMBER: JAPAN 09-62290
PRIORITY FILING DATE: 1997-02-27
PRIORITY APPLICATION NUMBER: JAPAN 10-62217
PRIORITY FILING DATE: 1996-02-26
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO: 2
LENGTH: 199
TYPE: PRT
ORGANISM: Homo sapiens
US-10-107-828-2

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Query Match	100.0%	Score 1082;	DB 12;	Length 199;
Best Local Similarity	100.0%	Pred. No. 2	9e-101;	
Matches 199;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps
Qy	1	MMSGIAMPPELPCLRIYVLTGFIENGSSAYEKEFIPIHNGGQVLCKYPRDIYNOQFPMQLKGG	60	
Db	1	MMSGIAMPPELPCLRIYVLTGFIENGSSAYEKEFIPIHNGGQVLCKYPRDIYNOQFPMQLKGG	60	
Qy	61	ILCDITLKTKSGGMYTISKSLRCHSOLSNNSVSFFLYLMDHSIANTYFCNLSTIDPPPFK	120	
Db	61	ILCDITLKTKSGGMYTISKSLRCHSOLSNNSVSFFLYLMDHSIANTYFCNLSTIDPPPFK	120	
Qy	121	VTLTNGYLIHYESOLCCQQLKFWLDPICAAFAVVCIIIGCILLCWLTTRKTKSSVHDPNKEY	180	
Db	121	VTLTNGYLIHYESOLCCQQLKFWLDPICAAFAVVCIIIGCILLCWLTTRKTKSSVHDPNKEY	180	
Qy	181	MEMRAVMTAKKSRILTDTVL	199	
Db	181	MEMRAVMTAKKSRILTDTVL	199	

RESULT 3
US-10-107-907-2
Sequence 2, Application US/10107907
Patent No. US20020151665A1
GENERAL INFORMATION:
APPLICANT: Tamatani, Takuya
APPLICANT: Tezuka, Tatsunari
TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
FILE REFERENCE: 06501-039002
CURRENT APPLICATION NUMBER: US/10/107, 907
CURRENT FILING DATE: 2002-03-26
PRIORITY APPLICATION NUMBER: 09/561,308
PRIORITY FILING DATE: 2000-04-28
PRIORITY APPLICATION NUMBER: PCT/JP98/00837

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: PRIOR FILING DATE: 1998-02-27
: PRIOR APPLICATION NUMBER: JAPAN 09-62290
: PRIOR FILING DATE: 1997-02-27
: PRIOR APPLICATION NUMBER: JAPAN 10-62217
: PRIOR FILING DATE: 1998-02-26
: NUMBER OF SEQ ID NOS: 26
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 2
: LENGTH: 199
: TYPE: prt
: ORGANISM: Homo sapiens
US-10-107-907-2

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Query Match      100.0%; Score 1082; DB 12; Length 199;
Best Local Similarity 100.0%; Pred. No. 2.9e-101;
Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY	1	MSGMGWAEFEFLQRLIRIVLVNLGELNSNANEMEFPHNGVGVLCXKXPDIVQDFPMOLLKGGQ	60
Db	1	MSGMGWAEFEFLQRLIRIVLVNLGELNSNANEMEFPHNGVQLLCKYPDIVQDFPMOLLKGGQ	60
QY	61	IICDILTKRKSGNGVSTIKSLKFCFHSOLSNNSVSFFLYNLNDHSNANYFCNLISIPDPPEFK	120
Db	61	IICDILTKRKSGNGVSTIKSLKFCFHSOLSNNSVSFFLYNLNDHSNANYFCNLISIPDPPEFK	120
QY	61	IICDILTKRKSGNGVSTIKSLKFCFHSOLSNNSVSFFLYNLNDHSNANYFCNLISIPDPPEFK	120
Db	61	IICDILTKRKSGNGVSTIKSLKFCFHSOLSNNSVSFFLYNLNDHSNANYFCNLISIPDPPEFK	120
QY	121	VFLTGGVLAHIESQLCCOLKFWLPIGCAAFVVCILGCLICMLTKKTKSSSVHPNGEY	180
Db	121	VFLTGGVLAHIESQLCCOLKFWLPIGCAAFVVCILGCLICMLTKKTKSSSVHPNGEY	180
QY	121	VFLTGGVLAHIESQLCCOLKFWLPIGCAAFVVCILGCLICMLTKKTKSSSVHPNGEY	180
Db	121	VFLTGGVLAHIESQLCCOLKFWLPIGCAAFVVCILGCLICMLTKKTKSSSVHPNGEY	180
QY	181	MEMRAVNTAKKSRLTDVTL	199
Db	181	MEMRAVNTAKKSRLTDVTL	199
QY	181	MEMRAVNTAKKSRLTDVTL	199
Db	181	MEMRAVNTAKKSRLTDVTL	199

RESULT 4
US-09-972-524-2
Sequence 2, Application US/09972524
Patent No. US20020177191A1
GENERAL INFORMATION:
APPLICANT: Kroczeck, Richard
TITLE OF INVENTION: Methods for Treatment of Asthmatic Disorders
FILE REFERENCE: 7853-240
CURRENT APPLICATION NUMBER: US/09/972,524
PRIORITY FILING DATE: 2001-10-04
PRIORITY APPLICATION NUMBER: 09/509,283
PRIORITY FILING DATE: 2000-08-11
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2
LENGTH: 198
TYPE: PRT
ORGANISM: BFA
US-09-972-524-2

Query Match	Similarity	Score	1067.5:	DB	9:	Length	198:
Best Local	Similarity	99.5%:	Pred.	0, 8.2e-100:			
Matches	198:	Conservative	0:	Mismatches	0:	Indels	1:
							Gaps
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Db	1	MKSGIMYFPLFCBCKIKVLTGEJNSANNEMFLPNHGVOILCKYDPIVOQKRMOLLGQ	60				
Qy	61	ILCDLTKTKGSGNTVSTKSLKPCBSOLSNSVSFFLITNLDHSHANTYFCNLSTFDPPPK	120				
Db	61	ILCDLTKTKGSGNTVSTKSLKPCBSOLSNSVSFFLITNLDHSHANTYFCNLSTFDPPPK	120				
Qy	121	VVLTKGYLHIYESOLCCQLKFWLPTICCAFVVCILICMLTKRKRYSSVHDPNGEY	180				
Db	121	VVLTKGYLHIYESOLCCQLKFWLPTICCAFVVCILICMLTKRKRYSSVHDPNGEY	179				
Qy	181	MEMRAVNTAKKSRLTDVTL	199				
Db	180	MEMRAVNTAKKSRLTDVTL	198				

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US-09-823-307-2
; Sequence 2, Application US/09823307
; Publication No. US20020182667A1
; GENERAL INFORMATION:
; APPLICANT: Kroczeck, Richard
; TITLE OF INVENTION: Methods of Modulating T Lymphocyte Costimulation
; FILE REFERENCE: 7853-235
; CURRENT APPLICATION NUMBER: US/09/823,307
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/509,283
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Bf4
; 09-823-307-2

Query Match      98.7% Score 1067.5; DB 9; Length 198;
Best Local Similarity 99.5%; Pred. No. 8,2e-100;
Matches 198; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

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QY 61 ILCDLTRKTSKGNVTWISIKSLKFCHSQLSNNNSVSFPLYNLDSHANYYFCNLSIFDPPPEK 120
DB 61 ILCDLTRKTSKGNVTWISIKSLKFCHSQLSNNNSVSFPLYNLDSHANYYFCNLSIFDPPPEK 120
QY 121 VTLGGGLHYHYESQLCCOLKFMPLPGCAAFVYVCIIIGCLITLCMLTKRKYSSVDHPNGEX 180
DB 121 VTLGGGLHYHYESQLCCOLKFMPLPGCAAFVYVCIIIGCLITLCMLTKRKYSSVDHPNGEX 180
QY 181 MEMRAVNTAKKSRLTDVTL 199
DB 180 MEMRAVNTAKKSRLTDVTL 198

RESULT 6
US-09-989-545-12
; Sequence 12, Application US/09989545
; Patent No. US20020164697A1
; GENERAL INFORMATION:
; APPLICANT: Lehar, Sophie
; APPLICANT: Manning, Stephen
; APPLICANT: Coyle, Anthony J.
; APPLICANT: Gutierrez-Ramos, Jose-Carlos
; TITLE OF INVENTION: No. US20020164697A1el Th2-Specific Molecules and Uses Thereof
; FILE REFERENCE: 5800-10B
; CURRENT APPLICATION NUMBER: US/09/989,545
; PRIOR FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 09/168,229
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 09/258,670
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 198
; TYPE: PRT
; ORGANISM: Homo sapiens
; 09-989-545-12

Query Match      98.6% Score 1066.5; DB 9; Length 198;
Best Local Similarity 99.5%; Pred. No. 1e-99;
Matches 198; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 MKSGLMYFFFLCRLKIVLTGELNGSANTYEMFIPIHNGVQILCKYPDIYOQFKMQLKGQ 60

```

```

? CURRENT APPLICATION NUMBER: US/09/989,545
? CURRENT FILING DATE: 2001-11-20
? PRIOR APPLICATION NUMBER: 09/168,229
? PRIOR FILING DATE: 1998-10-07
? PRIOR APPLICATION NUMBER: 09/258,670
? PRIOR FILING DATE: 1999-02-26
? NUMBER OF SEQ. ID NOS: 24
? SOFTWARE: PatentIn Ver. 2.0
? SEQ. ID NO. 10
? LENGTH: 200
? TYPE: prt
? ORGANISM: Mus sp.
? US-09-989-545-10

```

Query Match	68.2%	Score 737.5;	DB 9;	Length 200;
Best Local Similarity	69.3%;	Pred. No. 9, 4e-67;		
Matches 138;	Conservative 20;	Mismatches 40;	Indels 1;	Gaps
QY	1	MKSGLMWPEFLCIRIVLVINGEINSANYEMEFIRHNGGVGLICXPDYVOQFMKWLKSGQ	60	
L	1	MKPYRCHVAFECFLILNLVLGELNGSADHRFNRHNGVQISCKRPEYQGLKRLFRRE	60	
QY	61	ILICDITKTKSGSGTWTISKSKFCHSOLSNNSVFEFLYMLDISHANYEFCMLSTDPPEPK	120	
Db	61	VLCETLTKKSGGNAVSIRKPMFLCLHLHNSNVSVFLNPDSSQGSITFCGLSTDPPEQ	120	
QY	121	V-TLTGGLHLYTESQLCCQKFWLPICGAAFEVYVCLIGLCILICWLTKKYSSVHDPPGE	179	
Db	121	ERNISGGLHLYTESQLCCQKLTMLPVGCAAFVYVLLFGCLILIFWRSKTKGSSVHDPPSE	180	
QY	180	YMEKRAVNTAKKSRLLDTVT	198	
Db	181	YMFMAAVNTKKSRLAGVT	199	

```

RESULT 9
US-10-107-868-14
: Sequence 14, Application US/10107868
: Patent No. US20020156242A1
: GENERAL INFORMATION:
: APPLICANT: Tametani, Takuya
: APPLICANT: Tezuka, Katsunari
: TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
: TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
: FILE REFERENCE: 06501-039002
: CURRENT APPLICATION NUMBER: US/10/107,868
: CURRENT FILING DATE: 2002-03-26
: PRIOR APPLICATION NUMBER: 09/561,308
: PRIOR FILING DATE: 2000-04-28
: PRIOR APPLICATION NUMBER: US 09/383,551
: PRIOR FILING DATE: 1999-08-26
: PRIOR APPLICATION NUMBER: PCT/JP98/00837
: PRIOR FILING DATE: 1998-02-27
: PRIOR APPLICATION NUMBER: JAPAN 09-62290
: PRIOR FILING DATE: 1997-02-27
: PRIOR APPLICATION NUMBER: JAPAN 10-62217
: PRIOR FILING DATE: 1998-02-26
: NUMBER OF SEQ ID NOS: 26
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 14
: LENGTH: 200
: TYPE: PART
: ORGANISM: Mus musculus
: US-10-107-868-14

```

```

Query Match      68.8%; Score 722.5; DB 9; Length 200;
Best local Similarity 68.3%; Pred. No. 3e-65;
Matches 136; Conservative 20; Mismatches 42; Indels 1; Gaps 1.

OY 1 MSGGMYTFELCLRIKVLGTGEINGSNAMTEIPFNGSVOLLCRTPDYQGFQMLDGGQ 60
    11 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1 MKPFCFHYEFCFLIRLTGEINGSDHIMRSPFNNGSVOLLCRTPDYQGFQMLDGGQ 60
    11 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

[illegible]

```

RESULT 10
US-10-107-828-14
Sequence 14, Application US/10107828
Patient No US20020115831A1
GENERAL INFORMATION:
APPLICANT: Tamakanl, Takuya
TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
FILE REFERENCE: 06501-039002
CURRENT APPLICATION NUMBER: US/10/107, 828
CURRENT FILING DATE: 2002-03-26
PRIORITY APPLICATION NUMBER: US/09/561,308B
PRIORITY FILING DATE: 2000-04-28
PRIORITY APPLICATION NUMBER: PCT/JP98/00837
PRIORITY FILING DATE: 1998-02-27
PRIORITY APPLICATION NUMBER: JAPAN 09-62290*
PRIORITY FILING DATE: 1997-02-27
PRIORITY APPLICATION NUMBER: JAPAN 10-62217
PRIORITY FILING DATE: 1998-02-26
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14
LENGTH: 200
TYPE: PRT
ORGANISM: Mus musculus
US-10-107-828-14

```

```

Query Match: 66.8%; Score 722.5; DB 12; Length 200;
Best Local Similarity 68.3%; Pred. No. 3e-65;
Matches 136; Conservative 20; Mismatches 42; Indels 1; Gaps 1

QY      1  MMSGMTFFPLCLAKIVLGEINGSANVEMETIFANGVOYLCKYPTIVQOFKMLQGGQ 60
      11  :::::::::::::::::::::  :::::::::::::::::::::  :::::::::::::::::::::
      1  MKRYFCHVFHFCFPIRLITGEINGSADHRMFSEFNHGGVOISCKPPTVOYLKMRIFRERE 60
      11  :::::::::::::::::::::  :::::::::::::::::::::  :::::::::::::::::::::
      61  ILCDLTKRKSGSNVTYSIKSLPCFSOLSNSVSFFLYNLDSHANYVFCNLISFDPPPEFK 120
      61  VLCEILTKRKSGSNVATSKNPMCLLYHLSNSVSFFLANNPPDSOGSVYFCFSLISFDPPPFQ 120
      11  :::::::::::::::::::::  :::::::::::::::::::::  :::::::::::::::::::::
QY      121  V-TLGGVLIHYEESOLCCQLEKFLPTGCAAFVYVCILGCLTLCWLTKKRYSSVHPDNGE 179
      11  :::::::::::::::::::::  :::::::::::::::::::::  :::::::::::::::::::::
      121  ERRTSGCYLHYEESOLCCQLEKFLPVGLPAFYVYLFGCILITMFSKKRYGSSVHPDNSE 180
      11  :::::::::::::::::::::  :::::::::::::::::::::  :::::::::::::::::::::
QY      180  YMFRAVNTAKKSRRLTDYT 198
      11  1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111 1111
DB      181  YMFMAVNTNKKSKRLAGVT 199

RESULT 11
US-10-107-907-14
Sequence 14, Application US/10107907
; Patent No. US20020151685A1
; GENERAL INFORMATION:
; APPLICANT: Tamatani, Takuya
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
; FILE REFERENCE: 06501-039002
; CURRENT APPLICATION NUMBER: US/10-107-907

```

Wed Jan 15 17:17:46 2003

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Page 5

```

; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 09/561,308
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; PRIOR FILING DATE: 1998-02-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-107-907-14

```

```

Query Match
Best Local Similarity 66.8%; Score 722.5; DB 12; Length 200;
Matches 136; Conservative 20; Mismatches 42; Indels 1; Gaps 1;

```

```

1 MKSGMYFFELCLIKVLITGEINGSANYEMFIFHNGVQIICKYPIVQOFKMLKGGQ 60
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1 MKPYCHVEVFCFLIRLTGELNLSADHRMFSEHNGVQISCKYETVQOLKMLFHERE 60
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
61 ILCDLTKTKSGNTVSIKSLKFSCHSOLSNNSVSFFLYNLDHSHANYFCNLTIDPPPEK 120
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 61 VLCELTGKSGNNAVSIKPNPLCLILHLSNNSVSFFLNPDSSQGSYIFCSLTIDPPPEQ 120
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 121 V-TLGGYLAHYESQLCCQKFWLPGCAAFVYVCIIGCILICWLTKRKYSSVHDNGE 179
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 121 ERNLSCGYLAHYESQLCCQKLMPLVGLPAFVYVILFGCILIWFSSKKYSSVHDNSE 180
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 180 YMFRAVNTAKKSRLTDVT 198
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 181 YMFMAVNTNKKSRLAGVT 199
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

```

RESULT 12
US-10-107-868-13
; Sequence 13, Application US/10107868
; Patent No. US20020156242A1
; GENERAL INFORMATION:
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; FILE REFERENCE: 06501-039002
; CURRENT APPLICATION NUMBER: US/10/107,868
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 09/561,308
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 09/783,551
; PRIOR FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; PRIOR FILING DATE: 1998-02-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-107-868-13

```

```

Query Match
Best Local Similarity 64.8%; Score 701; DB 9; Length 200;
Matches 133; Conservative 17; Mismatches 42; Indels 4; Gaps 2;
OY 7 YF---FLFCLRIKVLITGEINGSANYEMFIFHNGVQIICKYPIVQOFKMLKGGQILC 63

```

```

Db 4 YFSCVVEVFCFLIKLTGELNLSADHRMFSEHNGVQISCKYETVQOLKMLFDRBVLIC 63
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 64 DLTKTGSGNTVSIKSLKFSCHSOLSNNSVSFFLYNLDHSHANYFCNLTIDPPPEK-KYT 122
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 64 DLTKTGSGNTVSIKPNMSCPYQLSNNSVSFFLNPDSSQGSYIFCSLTIDPPPEQKRN 123
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 123 LTGGYLAHYESQLCCQKFWLPGCAAFVYVCIIGCILICWLTKRKYSSVHDNGEYMF 182
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 124 LSGGYLAHYESQLCCQKLMPLVGLPAFVYVILFGCILIWFPAKKRYSSVHDNSEYMF 183
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 183 MRAVNTAKKSRLTDVT 198
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 184 MAAVNTNKKSRLAGVT 199
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

```

RESULT 13
US-10-107-828-13
; Sequence 13, Application US/10107828
; Patent No. US20020115831A1
; GENERAL INFORMATION:
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; FILE REFERENCE: 06501-039002
; CURRENT APPLICATION NUMBER: US/10/107,828
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: US/09/561,308B
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-10-107-828-13

```

```

Query Match
Best Local Similarity 64.8%; Score 701; DB 12; Length 200;
Matches 133; Conservative 17; Mismatches 42; Indels 4; Gaps 2;

```

```

OY 7 YF---FLFCLRIKVLITGEINGSANYEMFIFHNGVQIICKYPIVQOFKMLKGGQILC 63
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 4 YFSCVVEVFCFLIKLTGELNLSADHRMFSEHNGVQISCKYETVQOLKMLFDRBVLIC 63
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 64 DLTKTGSGNTVSIKSLKFSCHSOLSNNSVSFFLYNLDHSHANYFCNLTIDPPPEK-KYT 122
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 64 DLTKTGSGNTVSIKPNMSCPYQLSNNSVSFFLNPDSSQGSYIFCSLTIDPPPEQKRN 123
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 123 LTGGYLAHYESQLCCQKFWLPGCAAFVYVCIIGCILICWLTKRKYSSVHDNGEYMF 182
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 124 LSGGYLAHYESQLCCQKLMPLVGLPAFVYVILFGCILIWFPAKKRYSSVHDNSEYMF 183
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
OY 183 MRAVNTAKKSRLTDVT 198
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 184 MAAVNTNKKSRLAGVT 199
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

```

RESULT 14
US-10-107-907-13
; Sequence 13, Application US/10107907
; Patent No. US20020151685A1
; GENERAL INFORMATION:
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL

```

```

1 TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
2
3 FILE REFERENCE: 06501-039002
4
5 CURRENT APPLICATION NUMBER: US/10/107,907
6
7 PRIOR FILING DATE: 2002-03-26
8
9 PRIOR APPLICATION NUMBER: 09/561,308
10
11 PRIOR FILING DATE: 2000-04-28
12
13 PRIOR APPLICATION NUMBER: PCT/J998/00837
14
15 PRIOR FILING DATE: 1998-02-27
16
17 PRIOR APPLICATION NUMBER: JAPAN 09-62290
18
19 PRIOR FILING DATE: 1997-02-27
20
21 PRIOR APPLICATION NUMBER: JAPAN 10-62217
22
23 PRIOR FILING DATE: 1998-02-26
24
25 NUMBER OF SEQ ID NOS: 26
26
27 SOFTWARE: FASTSEQ for Windows Version 4.0
28
29 SEQ ID NO 13
30
31 LENGTH: 200
32
33 TYPE: PART
34
35 ORGANISM: Rattus norvegicus
36
37 US-10-107-907-13

```

ary Match	64.8%;	Score 701;	DB 12;	Length 200;
est Local Similarity	67.9%;	Pred. NO. 4.3e-63;		
atches 133; Conservative	17;	Mismatches 42;	Indels 4;	Gaps 2;

[illegible]

```

RESULT 15
US-10-107-868-15
Sequence 15, Application US/10107868
Patent No. US2002015642A1
GENERAL INFORMATION:
APPLICANT: Tezuka, Katsunari
APPLICANT: Tametani, Takuya
TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
FILE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
FILE REFERENCE: 06501-039002
CURRENT APPLICATION NUMBER: US/10/107,868
CURRENT FILING DATE: 2002-03-26
PRIOR APPLICATION NUMBER: 09/561,308
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: US 09/383,551
PRIOR FILING DATE: 1999-08-26
PRIOR APPLICATION NUMBER: PCT/JP98/00837
PRIOR FILING DATE: 1998-02-27
PRIOR APPLICATION NUMBER: JAPAN 09-62290
PRIOR FILING DATE: 1997-02-27
PRIOR APPLICATION NUMBER: JAPAN 10-62217
PRIOR FILING DATE: 1998-02-26
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO. 15
LENGTH: 216
TYPE: PRT
ORGANISM: Rattus norvegicus
US-10-107-868-15

```

Query Match	Score	DB	Length
Best Local Similarity	64.38;	9;	216;
	68.88;	Pred. No. 1.5e-62;	

	Matches 132:	Conservative 16:	Mismatches 40:	Indels 4:	Gaps 2:
Qy	7	YF----	FLVCLRLKVLTEIGMSANYEMPLFNHGGVOLLCKRPDYQVQFNMOLKGGQILC	63	
Db	4	YFSCVAFPCFLIKLTITGLDLNANHRMSPFHGGVQISCMYPTVQOLKMLQFLKQREYLIC	63		
Qy	64	DLTKTKGSGNTVYSIKSLPCHSOLSNNSVSFFELYLNLDHSHANYFCNLSTDEPPEF--KVT	122		
Db	64	DLTKTKGSGNTVYSIKSLPCHSOLSNNSVSFFELDNADSSQSGYFLCSLSTIDPPEPQEK	123		
Qy	123	LTGGLIHIYESOLCCOLKFWLPTGCAAFVYVCLIGCLITCWLTKKKYSSSVHDPNGEYMF	162		
Db	124	LSGGYLILYESOLCCOLKFWLPTGCAAFVYVCLIGCLITCWLTKKKYSSSVHDPNGEYMF	183		
Qy	183	MAAVNTAKKSRL	194		
Db	184	MAAVNTAKKSRL	195		

Search completed: January 15, 2003, 17:24:32
Job time : 12 secs

Db	Qy	Db
124	183	184
LSGGTLLLTYESQJCCOLKMLTFVCAALFGLFCITVWFAKKRISSVHDHPSEYMF	MRAVNTAKRSRL	MAAVNTNKKSRLL
194	195	